

10/525 449

DT15 Rec'd PTO 24 FEB 2005

WO 2004/020640

1

PCT/FR2003/002606

SEQUENCE LISTING

<110> INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE (INRA)
Isabelle, POQUET
Daniel, LLULL

<120> ZINC-REGULATED PROKARYOTIC EXPRESSION CASSETTES

<130> MJPbv539/116

<150> FR 02 10805

<151> 2002-08-30

<160> 14

<170> PatentIn version 3.1

<210> 1

<211> 32

<212> DNA

<213> Artificial sequence

<220>

<223> Consensus sequence of the pzn bacterial promoter

<220>

<221> misc_feature

<222> (9)..(9)

<223> N = A, C, G or T

<220>

<221> misc_feature

<222> (12)..(18)

<223> N = A, C, G or T

<220>

<221> -35_signal

<222> (19)..(24)

<223>

<400> 1

aaaaataang tnnnnnnnntt gacattat tt

32

<210> 2
<211> 47
<212> DNA
<213> Artificial sequence

<220>

<223> Consensus sequence of the pzn bacterial promoter

<220>

<221> misc_feature

<222> (9)..(9)

<223> N = A, C, G or T

<220>

<221> misc_feature

<222> (12)..(18)

<223> N = A, C, G or T

<220>

<221> -35_signal
<222> (19)..(24)

<223>

<220>

<221> misc_feature
<222> (33)..(41)

<223> N = A, C, G or T

<220>

<221> -10_signal
<222> (42)..(47)

<223>

<400> 2

aaaaataang tnnnnnnnntt gacattat tttnnnnnnn ntataat

47

<210> 3

<211> 32

<212> DNA

<213> Lactoccocus lactis

<220>

<221> misc_feature
<222> (9)..(9)

<223> Y = T ou C

<220>

<221> -35_signal
<222> (19)..(24)

<223>

<400> 3

aaaaataayg ttaactggtt gacattat tt

32

<210> 4

<211> 56

<212> DNA

<213> Lactoccocus lactis

<220>

<221> -35_signal
<222> (19)..(24)

<223>

<220>

<221> -10_signal
<222> (42)..(47)

<223>

<400> 4

aaaaataatg ttaactggtt gacattat ttactttgct atataattaa ccagta

56

<210> 5

<211> 57

<212> DNA
<213> Lactoccocus lactis

<220>
<221> -35_signal
<222> (20)..(25)
<223>

<220>
<221> -10_signal
<222> (43)..(48)
<223>

<400> 5
aaaaaaaataac gtttaactgggt tgacattatt ttttctttgc tatataatta accagta

57

<210> 6
<211> 25
<212> PRT
<213> Lactoccocus lactis

<400> 6

Met Lys Lys Ile Asn Leu Ala Leu Leu Thr Leu Ala Thr Leu Met Gly
1 5 10 15

Val Ser Ser Thr Ala Val Val Phe Ala
20 25

<210> 7
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> PCR primer

<400> 7
ctaatgagcg ggctttt

18

<210> 8
<211> 35
<212> DNA
<213> Artificial sequence

<220>
<223> PCR primer

<400> 8
gctcttagagc gggatccttc atcgaaaactc ttca

35

<210> 9
<211> 1100
<212> DNA
<213> Lactoccocus lactis

<220>

<221> -35_signal
<222> (295)..(300)
<223>

<220>
<221> -10_signal
<222> (318)..(323)
<223>

<220>
<221> RBS
<222> (343)..(348)
<223>

<220>
<221> misc_feature
<222> (362)..(362)
<223> N = A, C, G ou T

<220>
<221> misc_feature
<222> (412)..(412)
<223> N = A, C, G ou T

<220>
<221> misc_feature
<222> (445)..(445)
<223> N = A, C, G ou T

<220>
<221> RBS
<222> (780)..(786)
<223>

<400> 9
cacaggaaac agctatgacc atgattacgc caagctcgaa attaacccctc actaaaggga 60
acaaaagctg ggtaccgggc cccccctcga ggtcgacggt atcgatagcc cgccataatga 120
gcgggctttt ttttgatatc gaattaccgg ggaattcaga tctttgatca aggatctgtc 180
agctggttca actagcggtg gtcaaactgt tagtaataaa acttattgtt ttgatgttcg 240
gcttaaggat ggaaggattt tc当地ataaa aaagtaaaaa ataatgttaa ctgggtgaca 300
ttatatttac tttgctatat attaaccag taaactaatt atggaggaca aaatactatg 360
anttagcaa atcaaatcga ccagtttctt gggcaatta tgcagttgc anaaaaacaag 420
catgaaatat tactcggcga atgcnaaagt aatgttaagc taacaagcac gcaagaacat 480
atcttaatga ttcttagctgc agaggtttcg acaaaacgcga gaattgccga gcaactcaag 540
atttcgccag cagcggtaac taaagctctc aaaaaattac aagagcaaga actgattaaa 600
tcaagtcggg caacaaatga cgaacgcgt a gtcctttgga gcctgacaga aaaagcaatt 660
ccagttgcta aagaacatgc tgctcatcat gagaaaaactc taagtaccta ccaagaattt 720
ggagacaaat ttactgacga agaacaaaaa gtgataagtc aattcttatac agtacttacg 780

gaggagttc gatgaagaaa atattgatgt tatttgcstat tccggcagtt ttacttcttg 840
ctgggttgtca aaaaacagca gacaaaccag aagttgtgac aacttttagag ccgatgtatg 900
aatttaccaa agcgattgtt ggagataagg ttaaaattga aaatattgtt ccggcgaatc 960
aagaagttca cgaatttcaa ccgagtgcctt acgaaaaaa aatggtagaa aatgcaaaga 1020
aaattgaagt cgagttgac aaaggtcaaa gaactgataa atatggacgt ggcttagcgt 1080
atatttatgc tgatggaaaaa 1100

<210> 10
<211> 160
<212> DNA
<213> Lactococcus lactis

<220>
<221> -35 signal
<222> (123)..(128)
<223>

<220>
<221> -10 signal
<222> (146)..(151)
<223>

<400> 10
gatctgtcag ctgggtcaac tagcggtggt caaactgtta gtaataaaac ttattgtttt 60
gatgttcggc ttaaggatgg aaggatttt caaataaaaa agtaaaaaat aatgttaact 120
ggttgacatt attttactt tgctatataa ttaaccagta 160

<210> 11
<211> 27
<212> DNA
<213> Artificial sequence

<220>
<223> PCR primer

<400> 11
gttctaagga tccattaact taaggag

27

<210> 12
<211> 28
<212> DNA
<213> Artificial sequence

<220>
<223> PCR primer

<400> 12
aagtagatgc atcagcaaat acaacggc

28

<210> 13

<211> 27
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide
<400> 13

Met Lys Lys Ile Asn Leu Ala Leu Leu Thr Leu Ala Thr Leu Met Gly
1 5 10 15

Val Ser Ser Thr Ala Val Val Phe Ala Asp Ala
20 25

<210> 14
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Insertion linker

<220>
<221> misc_feature
<222> (1)..(2)
<223> N = A, C, G or T

<400> 14

nnatgcatca

10